For Research Use Only

NFATC2 Polyclonal antibody Catalog Number:22023-1-AP Featured Product 22

Featured Product 22 Publications



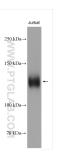
Basic Information	Catalog Number: 22023-1-AP	GenBank Accession Number: BC 136418		Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 900 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG16849	GeneID (NCBI): 4773 UNIPROT ID: Q13469 Full Name: nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent Calculated MW: 925 aa, 100 kDa		Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:50-1:500
		Observed MW: 135 kDa		
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA	Positive Controls: WB : Jurkat cells,		
	Cited Applications: IP : Jurkat of		IP : Jurkat cel	
	WB, IHC, IF Species Specificity: human, mouse			preast cancer tissue, human colon cance I lymphoma tissue
	Cited Species: human, mouse	IF/ICC : U-251 cells,		
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alternat retrieval may be performed v buffer pH 6.0	ively, antigen		
Background Information	Nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), also named NFAT1, or NFATP, is a 925 amino acid protein, which is expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas. Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription. NFATC2 plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. NFATC2 promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway. The calculated molecular weight of NFATC2 is about 97-100 kDa, but the modified NFATC2 protein is about 135 kDa.			
Notable Publications	Author Pub	med ID Journ	าลเ	Application
	Qian Wang 330	15191 J Dia	betes Res	IF
	Yitian Lu 360	71475 J Neu	roinflammation	WB
	Bing Xin 331	25687 Repro	od Sci	WB
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage			
*** 20ul sizes contain 0.1% BSA	Audoring is onnecessary for -20 C	SUIGE		
For technical support and original validation da	ta for this product please contact:		This product is e	exclusively available under Proteintec

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

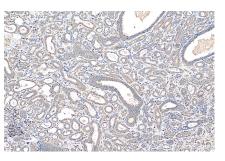
E: proteintech@ptglab.com W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

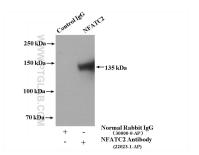
Selected Validation Data



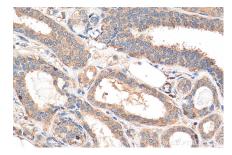
Jurkat cells were subjected to SDS PAGE followed by western blot with 22023-1-AP (NFATC2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



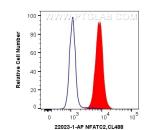
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22023-1-AP (NFATC 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



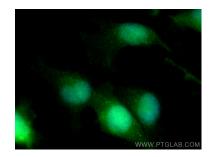
IP result of anti-NFATC2 (IP:22023-1-AP, 4ug; Detection:22023-1-AP 1:1000) with Jurkat cells lysate 3200ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22023-1-AP (NFATC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Jurkat cells were intracellularly stained with 0.4 ug Anti-Human NFATC2 (22023-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using NFATC2 antibody (22023-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).